

SECOND QUARTER 2019
Analytical Tables, Figures, and
Laboratory Report
SULLIVAN 3-1

COGCC SPILL TRACKING # 451307 COGCC
REMEDATION # 12297

Prepared for:



5400 West 11th
Street, Suite C
Greeley, CO 80634

Prepared by:



6899 North Pecos Street,
Unit C Denver, CO 80221

TABLE 1
GROUNDWATER ELEVATION DATA
SRC ENERGY, INC. - SULLIVAN 3-1

Monitoring Well ID	Date	Top of Casing Elevation (ft. AMSL)	Total Depth (ft. BTOC)	Depth to Water (ft. BTOC)	Depth to LNAPL (ft. BTOC)	LNAPL Thickness (ft.)	Groundwater Elevation* (ft. AMSL)
BH01	01/31/18	4887.25	18.16	7.70	ND	ND	4879.55
BH01	01/10/19	4887.25	18.20	8.41	ND	ND	4878.84
BH01	04/30/19	4887.25	18.25	7.64	ND	ND	4879.61
BH02	01/31/18	4887.34	18.15	7.69	ND	ND	4879.65
BH02	01/10/19	4887.34	18.18	8.33	ND	ND	4879.01
BH02	04/30/19	4887.34	18.24	7.59	ND	ND	4879.75
BH03	01/31/18	4887.83	18.15	8.27	ND	ND	4879.56
BH03	01/10/19	4887.83	18.12	9.00	ND	ND	4878.83
BH03	04/30/19	4887.83	18.12	8.23	ND	ND	4879.60
BH04	01/31/18	4888.13	17.76	8.22	ND	ND	4879.91
BH04	01/10/19	4888.13	17.81	8.06	ND	ND	4880.07
BH04	04/30/19	4888.13	17.86	8.17	ND	ND	4879.96
BH05	01/31/18	4888.51	18.42	8.65	ND	ND	4879.86
BH05	01/10/19	4888.51	18.47	9.37	ND	ND	4879.14
BH05	04/30/19	4888.51	18.49	8.69	ND	ND	4879.82
BH06	01/31/18	4887.70	14.85	8.05	ND	ND	4879.65
BH06	01/10/19	4887.70	14.81	8.74	ND	ND	4878.96
BH06	04/30/19	4887.70	14.57	7.98	ND	ND	4879.72

ft. = Feet

AMSL = Above mean sea level

BTOC = Below top of casing

LNAPL = Light non-aqueous phase liquid

ND = No LNAPL detected

* Groundwater elevation was corrected for product thickness (when present) using the following calculation:

Groundwater elevation = (TOC Elevation - Measured Depth to Water)+(LNAPL Thickness in Well x LNAPL Relative Density)

LNAPL relative density was estimated to be approximately 0.75

TABLE 2
GROUNDWATER ANALYTICAL DATA
SRC ENERGY, INC. - SULLIVAN 3-1

Monitoring Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
COGCC Standard		5	560	700	1,400
BH01	01/31/18	<1.0	<1.0	<1.0	<2.0
BH01	01/10/19	<1.0	<1.0	<1.0	<1.0
BH01	04/30/19	<1.0	<1.0	<1.0	<1.0
BH02	01/31/18	<1.0	<1.0	<1.0	<2.0
BH02	01/10/19	<1.0	<1.0	<1.0	<1.0
BH02	04/30/19	<1.0	<1.0	<1.0	<1.0
BH03	01/31/18	<1.0	<1.0	<1.0	<2.0
BH03	01/10/19	<1.0	<1.0	<1.0	<1.0
BH03	04/30/19	<1.0	<1.0	<1.0	<1.0
BH04	01/31/18	<1.0	<1.0	<1.0	<2.0
BH04	01/10/19	<1.0	<1.0	<1.0	<1.0
BH04	04/30/19	<1.0	<1.0	<1.0	<1.0
BH05	01/31/18	<1.0	<1.0	<1.0	<2.0
BH05	01/10/19	<1.0	<1.0	<1.0	<1.0
BH05	04/30/19	<1.0	<1.0	<1.0	<1.0
BH06	01/31/18	62	<1.0	5.0	7.3
BH06	01/10/19	<1.0	<1.0	<1.0	<1.0
BH06	04/30/19	1.57	<1.0	<1.0	<1.0

COGCC = Colorado Oil and Gas Conservation Commission

µg/L = Micrograms per liter

< = Analytical result is less than the indicated laboratory reporting limit

Groundwater standards referenced from COGCC Table 910-1

Highlighted results are equal to or exceed the COGCC Table 910-1 standard

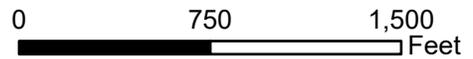
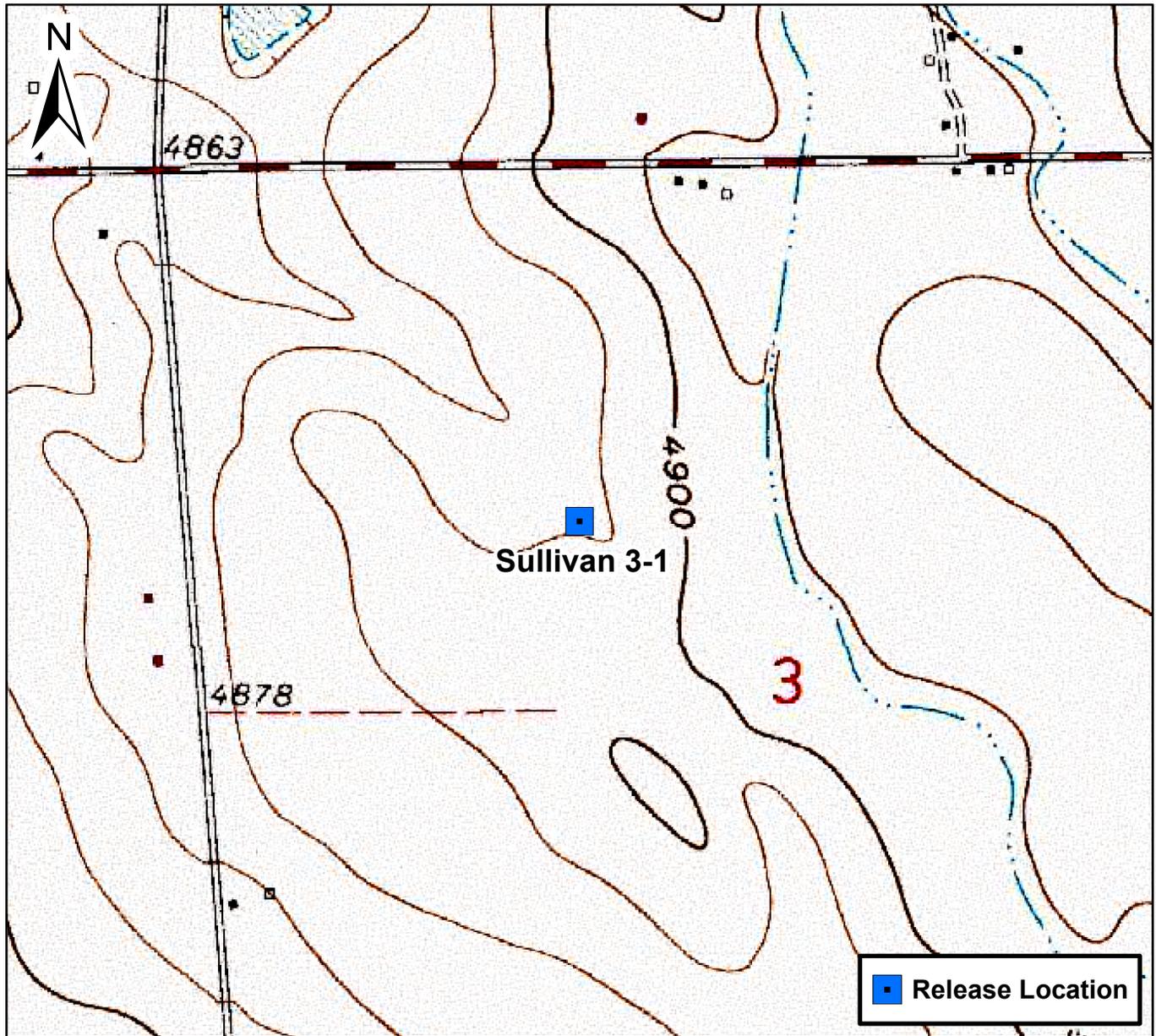
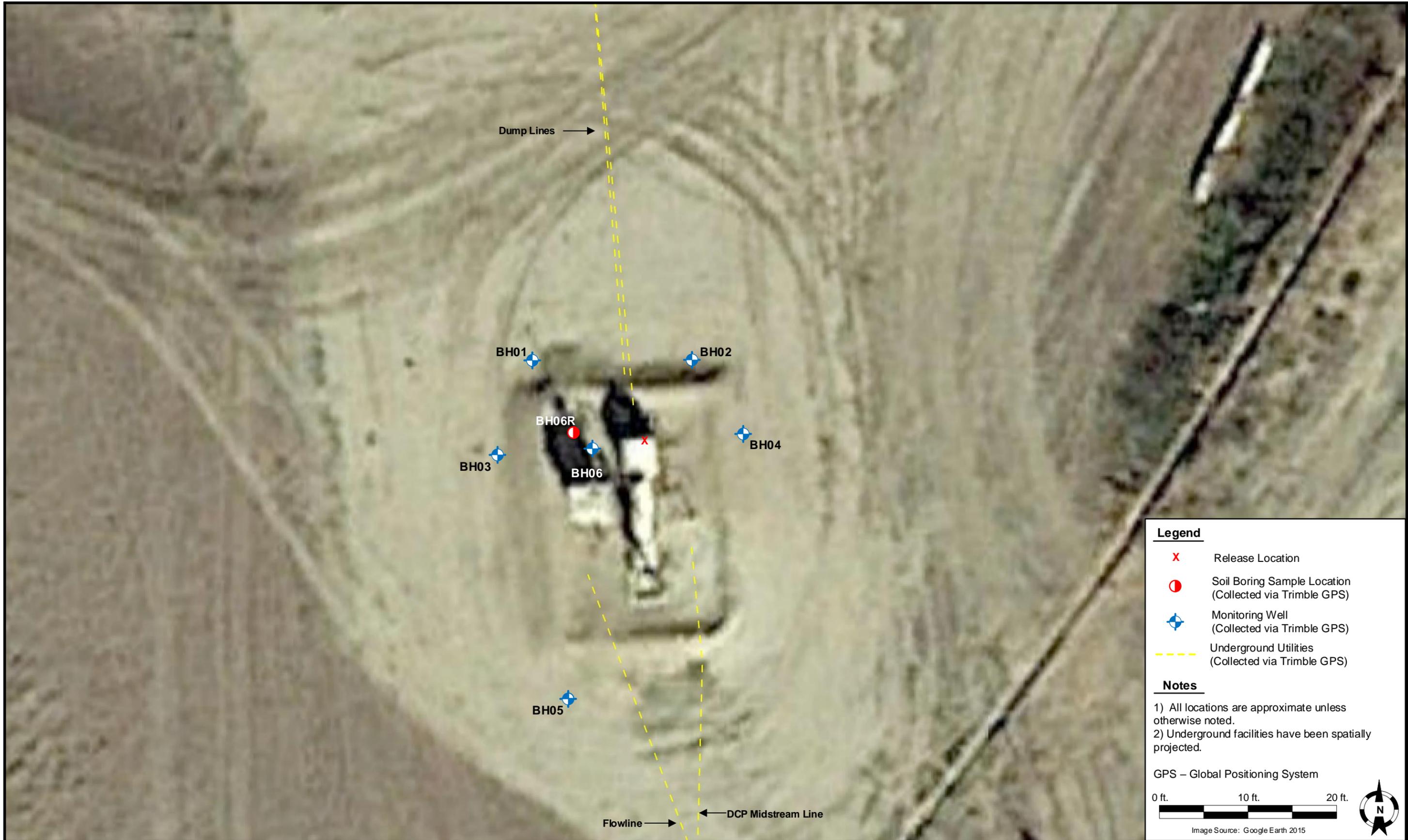


Figure 1

Site Location Map
 Sullivan 3-1
 SENW S3 T6N R66W
 Weld County, Colorado





DATE:	01/28/19
DESIGNED BY:	JW
DRAWN BY:	TL



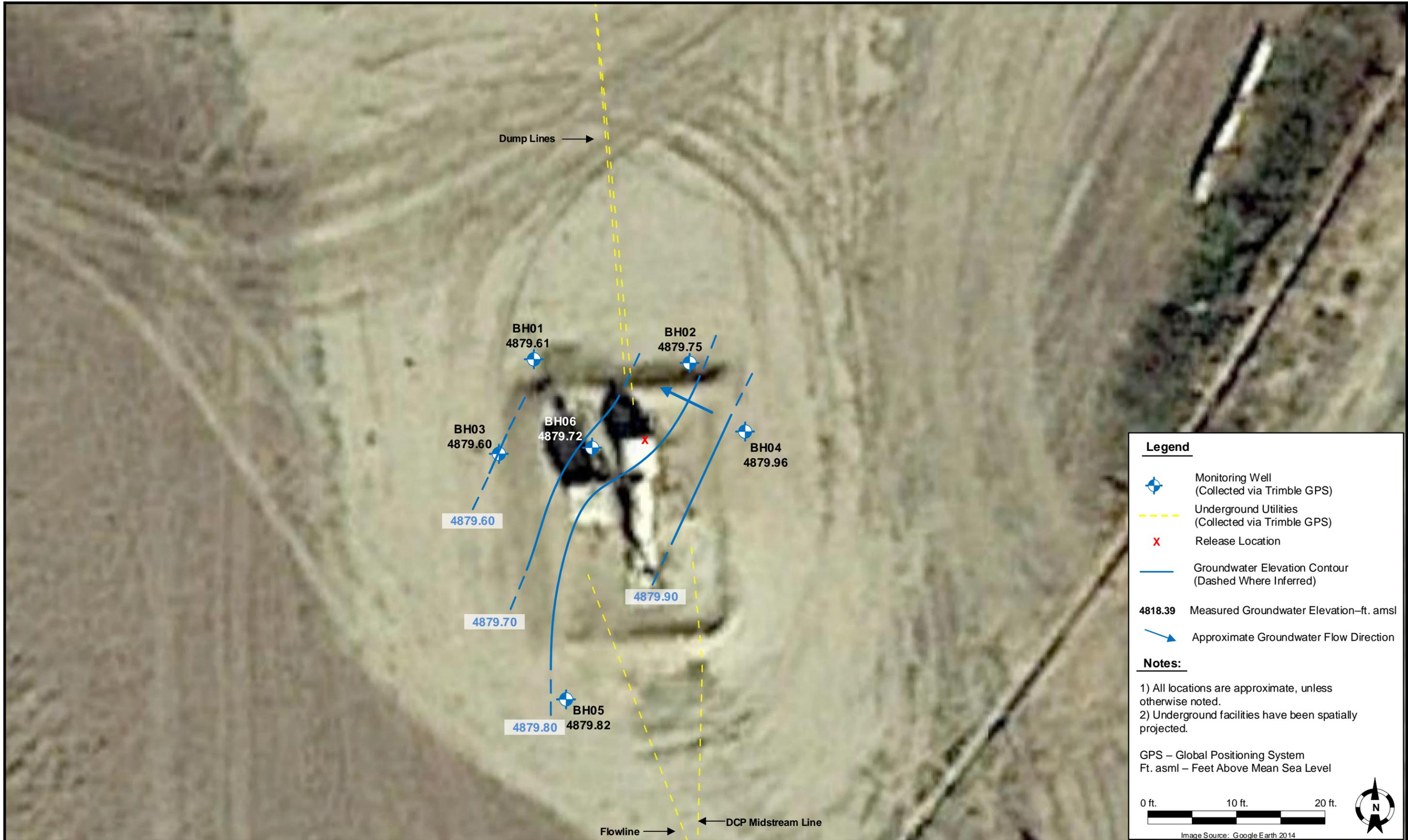
TASMAN
GEOSCIENCES

Tasman Geosciences, Inc.
6899 Pecos Street – Unit C
Denver, CO 80221

SRC Energy – DJ Basin
Sullivan 3-1
SENW, Section 3, Township 6 North, Range 66 West
Weld County, Colorado

Site Overview Map

FIGURE
2



DATE:	5/15/2019
DESIGNED BY:	JW
DRAWN BY:	KC



TASMAN
GEOSCIENCES

Tasman Geosciences, Inc.
6899 Pecos Street – Unit C
Denver, CO 80221

**SRC Energy – DJ Basin
Sullivan 3-1**
SENW, Section 3, Township 6 North, Range 66 West
Weld County, Colorado

Groundwater Potentiometric
Surface Contour Map
(04/30/19)

FIGURE
3



Legend

- X Release Location
- Monitoring Well (Collected via Trimble GPS)
- Underground Utilities (Collected via Trimble GPS)

Notes

- 1) All locations are approximate unless otherwise noted.
- 2) RED value indicates concentration greater than COGCC table 910-1 groundwater standard (see table below).

GPS – Global Positioning System
 ug/L – Micrograms Per Liter
 COGCC – Colorado Oil and Gas Conservation Commission

Groundwater Contaminant of Concern	COGCC Concentration Standard
B - Benzene	5 ug/L
T - Toluene	560 ug/L
E - Ethylbenzene	700 ug/L
X – Total Xylenes	1,400 ug/L

0 ft. 10 ft. 20 ft.

Image Source: Google Earth 2015

DATE: 5/15/2019

DESIGNED BY: JW

DRAWN BY: KC

TASMAN
GEOSCIENCES

Tasman Geosciences, Inc.
 6899 Pecos Street – Unit C
 Denver, CO 80221

SRC Energy, Inc.– DJ Basin
Sullivan 3-1
 SENW, Section 3, Township 6 North, Range 66 West
 Weld County, Colorado

Groundwater Analytical
 Results Map
 (04/30/19)

FIGURE
 4

May 02, 2019

Tasman Geosciences

Brandon Bruns

6899 Pecos Street, Unit C

Denver CO 80211

Project Name - SRC - Sullivan 3-1

Project Number - [none]

Attached are your analytical results for SRC - Sullivan 3-1 received by Origins Laboratory, Inc. April 30, 2019. This project is associated with Origins project number Y905001-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brandon Bruns
Project Number: [none]
Project: SRC - Sullivan 3-1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01	Y905001-01	Water	April 30, 2019 12:40	04/30/2019 17:00
BH02	Y905001-02	Water	April 30, 2019 12:50	04/30/2019 17:00
BH03	Y905001-03	Water	April 30, 2019 12:30	04/30/2019 17:00
BH04	Y905001-04	Water	April 30, 2019 13:00	04/30/2019 17:00
BH05	Y905001-05	Water	April 30, 2019 12:50	04/30/2019 17:00
BH06	Y905001-06	Water	April 30, 2019 12:40	04/30/2019 17:00

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brandon Bruns
 Project Number: [none]
 Project: SRC - Sullivan 3-1

Origins Laboratory

F-012207-01-R1
 Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: 4905001

Client: Tasman
 Client Project ID: SRC - Sullivan 3-1

Checklist Completed by: JG
 Date/time completed: 5/01/2019

Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other:

Cooler Number/Temperature: 1 / 2.8 °C 1 °C 1 °C 1 °C (Describe)

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ^{(1)?}	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ^{(1)?}	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ^{(1)?}	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ^{(1)?}		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ^{(1)?}	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ^{(1)?}	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ^{(1)?}	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ^{(1)?}	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked ^{(1)?} (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

[Signature]
 Reviewed by (Project Manager)

5/2/19
 Date/Time Reviewed

Origins Laboratory, Inc.

Jefe Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brandon Bruns
 Project Number: [none]
 Project: SRC - Sullivan 3-1

BH01

4/30/2019 12:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905001-01 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9E0106	JTD	05/01/2019	05/01/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brandon Bruns
 Project Number: [none]
 Project: SRC - Sullivan 3-1

BH02

4/30/2019 12:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905001-02 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9E0106	JTD	05/01/2019	05/01/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	114 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	107 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brandon Bruns
 Project Number: [none]
 Project: SRC - Sullivan 3-1

BH03

4/30/2019 12:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905001-03 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9E0106	JTD	05/01/2019	05/01/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	114 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.7 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	107 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brandon Bruns
 Project Number: [none]
 Project: SRC - Sullivan 3-1

BH04

4/30/2019 1:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905001-04 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9E0106	JTD	05/01/2019	05/01/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	114 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.7 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	106 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brandon Bruns
 Project Number: [none]
 Project: SRC - Sullivan 3-1

BH05

4/30/2019 12:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905001-05 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9E0106	JTD	05/01/2019	05/01/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	116 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.1 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	109 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brandon Bruns
 Project Number: [none]
 Project: SRC - Sullivan 3-1

BH06

4/30/2019 12:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905001-06 (Water)

BTEX by EPA 8260D

Benzene	1.57	1.00	ug/L	1	B9E0106	JTD	05/01/2019	05/01/2019	
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	114 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.2 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	106 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brandon Brunns
 Project Number: [none]
 Project: SRC - Sullivan 3-1

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B9E0106 - EPA 5030B (Water)

Blank (B9E0106-BLK1)

Prepared: 05/01/2019 Analyzed: 05/01/2019

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	67		"	62.5		107	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		106	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brandon Brunns
 Project Number: [none]
 Project: SRC - Sullivan 3-1

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9E0106 - EPA 5030B (Water)

LCS (B9E0106-BS1)

Prepared: 05/01/2019 Analyzed: 05/01/2019

Benzene	46.4	1.00	ug/L	50.0		92.7	70-130			
Toluene	43.9	1.00	"	50.0		87.8	70-130			
Ethylbenzene	44.6	1.00	"	50.0		89.2	70-130			
m,p-Xylene	88.8	2.00	"	100		88.8	70-130			
o-Xylene	46.2	1.00	"	50.0		92.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		100	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brandon Brunns
 Project Number: [none]
 Project: SRC - Sullivan 3-1

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B9E0106 - EPA 5030B (Water)

Matrix Spike (B9E0106-MS1)	Source: Y905001-01			Prepared: 05/01/2019 Analyzed: 05/01/2019						
Benzene	48.4	1.00	ug/L	50.0	ND	96.7	70-130			
Toluene	45.3	1.00	"	50.0	ND	90.6	70-130			
Ethylbenzene	47.1	1.00	"	50.0	ND	94.2	70-130			
m,p-Xylene	93.7	2.00	"	100	0.220	93.4	70-130			
o-Xylene	47.6	1.00	"	50.0	ND	95.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		103	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		103	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brandon Brunns
 Project Number: [none]
 Project: SRC - Sullivan 3-1

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B9E0106 - EPA 5030B (Water)

Matrix Spike Dup (B9E0106-MSD1)	Source: Y905001-01			Prepared: 05/01/2019 Analyzed: 05/01/2019						
Benzene	47.2	1.00	ug/L	50.0	ND	94.3	70-130	2.51	20	
Toluene	44.8	1.00	"	50.0	ND	89.6	70-130	1.11	20	
Ethylbenzene	45.6	1.00	"	50.0	ND	91.3	70-130	3.11	20	
m,p-Xylene	92.1	2.00	"	100	0.220	91.9	70-130	1.68	20	
o-Xylene	47.0	1.00	"	50.0	ND	94.0	70-130	1.27	20	
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		102	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brandon Bruns
Project Number: [none]
Project: SRC - Sullivan 3-1

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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Jen Pellegrini For Noelle Doyle Mathis, President